

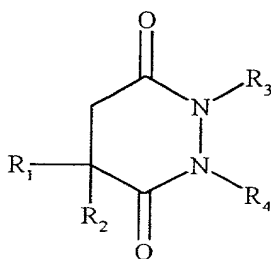
CLAIMS

What is claimed is:

1. A composition comprising:

(A) a lubricant, and

(B) at least one alkyl succinhydrazide compound of the formula:



wherein:

R_1 is selected from the group consisting of linear or branched alkyl, alkenyl, alkaryl, alkyl ether, alkyl ester, and alkylene ester groups;

R_2 is selected from the group consisting of hydrogen, linear or branched alkyl, alkenyl, alkyl ether, and alkyl ester groups; and

R_3 and R_4 are independently selected from the group consisting of hydrogen, linear or branched alkyl and alkenyl groups, aryl groups, and alkaryl groups.

2. The composition of claim 1 wherein the lubricant is a lubricating oil.

3. The composition of claim 1 wherein R_1 is a straight chain hydrocarbon, a branched chain hydrocarbon, a fully saturated hydrocarbon chain, or a partially unsaturated hydrocarbon chain.

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- 1 4. The composition of claim 2 wherein R_1 is a straight chain hydrocarbon, a branched
2 chain hydrocarbon, a fully saturated hydrocarbon chain, or a partially unsaturated hydrocarbon
3 chain.
- 1 5. The composition of claim 1 wherein R_1 is a hydrocarbon chain of from 1 to 30 carbon
2 atoms.
- 1 6. The composition of claim 2 wherein R_1 is a hydrocarbon chain of from 1 to 30 carbon
2 atoms.
- 1 7. The composition of claim 1 wherein R_1 is a linear or branched hexadecylene chain.
- 1 8. The composition of claim 2 wherein R_1 is a linear or branched hexadecylene chain..
- 1 9. The composition of claim 1 wherein the alkyl-succinhydrazide is present in a
2 concentration in the range of from about 0.01 to about 10 wt%.
- 1 10. The composition of claim 2 wherein the alkyl-succinhydrazide is present in a
2 concentration in the range of from about 0.01 to about 10 wt%.
- 1 11. The composition of claim 1 wherein R_2 , R_3 , and R_4 are independently selected from the
2 group consisting of hydrogen, aryl, alkyl, alkaryl, and alkenyl.
- 1 12. The composition of claim 2 wherein R_2 , R_3 , and R_4 are independently selected from the
2 group consisting of hydrogen, aryl, alkyl, alkaryl, and alkenyl.
- 1 13. The composition of claim 11 wherein R_2 , R_3 , and R_4 are the same.

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- 1 14. The composition of claim 12 wherein R_2 , R_3 , and R_4 are the same.
- 1 15. The composition of claim 13 wherein R_2 , R_3 , and R_4 are hydrogen.
- 1 16. The composition of claim 14 wherein R_2 , R_3 , and R_4 are hydrogen.
- 1 17. The composition of claim 1 further comprising at least one additive selected from the
2 group consisting of dispersants, detergents, corrosion/rust inhibitors, zinc
3 dialkyldithiophosphates, VI improvers, pour point depressants, antioxidants, and friction
4 modifiers.
- 1 18. The composition of claim 2 further comprising at least one additive selected from the
2 group consisting of dispersants, detergents, corrosion/rust inhibitors, zinc
3 dialkyldithiophosphates, VI improvers, pour point depressants, antioxidants, and friction
4 modifiers.
- 1 19. The composition of claim 1 further comprising at least one member selected from the
2 group consisting of zinc dialkyldithiophosphates, zinc diaryldithiophosphates, and mixtures
3 thereof.
- 1 20. The composition of claim 2 further comprising at least one member selected from the
2 group consisting of zinc dialkyldithiophosphates, zinc diaryldithiophosphates, and mixtures
3 thereof.